

Volume 1



Ontario

Ministry
of the
Environment

Hon. Harry C. Parrott, D.D.S.,
Minister

Graham W. S. Scott,
Deputy Minister

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AIR QUALITY MONITORING REPORT

ONTARIO 1978

VOL. 1



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Introduction

This report, Volume 1, contains a summary of 1978 air quality data obtained by continuous monitoring instruments operated by the Ministry of the Environment at 102 locations across Ontario. In addition, a summary of sulphur dioxide data from 47 stations operated by Ontario Hydro in the vicinity of their power generating stations has been included.

As in previous years, the monthly summaries of hourly data are given in the remaining four volumes of this report: Volume 2, sulphur dioxide data from 71 stations; Volume 3, soiling index data from 64 stations; Volume 4, carbon monoxide, hydrocarbons (total and reactive), ozone and total reduced sulphur from 22, 15, 26, and 10 stations respectively; Volume 5, the oxides of nitrogen NO , NO_2 , and NO_x from 21, 23, and 21 stations respectively.

Sampling Stations

Table 1, lists the stations in the Ontario monitoring network with continuous sampling instruments. The first seven columns give the region in which the monitor is located, the station identification number and address, its bearing on the Universal Transverse Mercator (UTM) Grid, the height of the station above mean sea level, and the height of the air intake above ground. The last seven columns indicate which of the pollutants, total reduced sulphur (TRS), sulphur dioxide (SO_2), soiling index (COH), ozone (O_3), carbon monoxide (CO), hydrocarbons — total or reactive — (HC), nitrogen dioxide (NO_2), nitric oxide (NO), and nitrogen oxides (NO_x), are being monitored at that station.

The largest number of stations in a region is 27 in the Central Region. The most monitoring instruments (102) are also found in the Central Region. Figure 1 shows the general location of the sampling stations across Ontario as well as the number in each region and city. Figures 2, 3, 4, and 5 show the locations of the sampling stations in Toronto, Hamilton, the Sudbury area, and Windsor respectively.

Criteria for Desirable Ambient Air Quality

Table 2, outlines the Criteria for Desirable Air Quality in Ontario for those contaminants reported in this report. The criteria are given in units of parts per million by volume and micrograms per cubic meter of air for the sampling time appropriated for each contaminant; 1 hour, 8 hours, 24 hours, or 1 year. The unit for soiling index, a measure of suspended particulate matter, is Coefficient of Haze (COH) per 1000 feet of air sampled.

These criteria serve as a convenient yardstick by which the Province may estimate its success in achieving goals for desirable ambient air quality.

1978 Measurements

Acquisition and processing of air quality data in Ontario is the responsibility of the Air Quality and Meteorology Section of the Air Resources Branch. The instrumentation, however, has been installed and maintained by the Technical Support Group in each of the six regional offices since the Ministry decentralized many of its operations in 1974.

Data are acquired in two ways. Data from stations in areas which have a publicized Air Pollution Index are telemetered in real-time to the central data acquisition facility in Toronto where they are digitized, stored on magnetic tape, and then computer-processed. All other data are recorded locally on analogue charts which are later read and digitized by the Data Analysis Group in Toronto and then processed by computer in the same way as the telemetered data.

In this Volume, the annual summary of hourly readings for each station and contaminant is reported in a single line giving the number of days on which valid data were monitored, the percentile distribution, the arithmetic mean, the maximum 1-hour and 24-hour readings, and, where appropriate, the number of times the air quality criteria were exceeded.

Analyses of Data

Sulphur Dioxide (see Table 3)

Inventoried emissions of sulphur dioxide in 1978 were approximately 1.4 million tonnes, of which 0.78 million tonnes were emitted in the primary smelting of nickel, copper and iron in the Sudbury and Wawa areas. (Note that SO_2 emissions were reduced in 1978 due to a strike at INCO Ltd., the largest smelter.) Thermal generating stations are the largest sources of SO_2 in southern Ontario accounting for 0.44 million tonnes annually. The remaining 0.18 million tonnes are emitted by industrial, commercial, and residential fuel users as well as refineries, coke ovens, and other industrial operations. It should be noted, however, that community air quality is, on the long term, affected more by small, nearby sources emitting at low elevations than by large and distant sources emitting from tall stacks.

Of the 71 stations in the Ontario network, none recorded annual average levels above the 1-year criterion of 0.02 ppm. Eleven stations reported days exceeding the 24-hour criterion of 0.10 ppm; the 1-hour criterion of 0.25 ppm was exceeded at twenty-seven stations.

The highest annual average (0.019 ppm) was measured at three sites: Happy Valley, Falconbridge; 156 Victoria

St., Sarnia, and Beatrice St., Welland. The highest 24-hour average (0.57 ppm) was measured at Happy Valley. The highest hourly measurement (2.51 ppm) was recorded at 29 Hillcrest Ave., Wawa.

Suspended Particulate Matter Soiling Index (see Tables 4 and 5)

Traditionally, the public has identified air pollution with black or dark smoke. Improved combustion technology and an increase in the use of fuels other than coal has eliminated black smoke as a major pollutant. Fine particles of smoke from combustion and dust from construction, grinding processes, and transportation constitute what is termed "suspended particulate matter". The soiling properties of a sample of suspended particulate deposited upon a filter are measured by the reduction of light transmitted through the soiled filter and is related to both the opacity and darkness of the deposit. The evaluation is carried out on 1-hour or 2-hour samples and is known as the soiling index. The unit of measure for soiling index is the Coefficient of Haze (COH) per 1000 feet of air sampled.

The annual average criterion of 0.5 COH/1000 ft. was surpassed at three locations, two in Hamilton, and one in Windsor. The maximum annual value (0.67) was recorded at North Park in Hamilton. The 24-hour criterion of 1.0 COH/1000 ft. was exceeded at twenty-one stations but only five did so more than ten times during 1976. These were North Park, Hamilton (78), Barton-Wentworth, Hamilton (26), Bathurst-Wilson, North York (23), Sherbourne/Wilton, Toronto (21), and 461 University Ave., Windsor (11).

Carbon Monoxide (see Table 6)

In terms of total weight and concentration, carbon monoxide leads all other contaminants in city air. Mobile sources, trucks and automobiles, are almost exclusively responsible. Although pollution control equipment has reduced the output per car, the increase in the number of vehicles on many streets has limited the overall reduction.

The highest levels of carbon monoxide were measured at 381 Yonge St. in Toronto. This station, located close to a major traffic artery and within the urban street canyon, measured an annual average of 5.4 ppm, an eight-hour average maximum of 35 ppm and maximum one-hour average of 47 ppm. This was the only monitoring site in Ontario to exceed both the criteria of 30 ppm for one hour (50 times) and 13 ppm averaged over eight hours (47 times). The only other site to exceed the criteria was the monitor located at 67 Collete St., 2nd Floor, Toronto which exceeded the eight-hour criterion once with a reading of 15 ppm.

Hydrocarbons (see Table 7 and 8)

Hydrocarbons are emitted naturally from trees and vegetation; they are also emitted by vehicles, gasoline storage tanks, and filling tanks.

Two types of measurements are made of hydrocarbons in Ontario. The first type uses flame ionization techniques to measure all hydrocarbons and is reported as total hydrocarbons. Methane, however, does not participate in the number of photochemical reactions which form oxidants. Thus, techniques have been developed to remove the methane fraction from the total hydrocarbon measurement. This measurement has been termed reactive hydrocarbons.

There are not criteria for total or reactive hydrocarbons in Ontario. The highest annual mean level at the fifteen total hydrocarbon monitoring locations was 2.56 ppm at Elmcrest Rd., Etobicoke. The maximum annual mean level reported from the limited reactive hydrocarbon data was 1.72 ppm at Barton-Wentworth in Hamilton.

Ozone (see Table 9)

Ozone is a naturally occurring constituent of the upper atmosphere. In the lower atmosphere, it is a secondary product of photochemical reaction among reactive hydrocarbons and nitrogen oxides. In the upper atmosphere, ozone plays an important role in the maintenance of life on the ground by absorbing harmful ultra-violet radiation. In the lower atmosphere, however, ozone is detrimental to the health of man and plants as well as enhancing damage to various materials.

Since time is needed for the afore-mentioned photochemical reactions to be completed, ozone is often found some distances from the source of its pollutant precursors. Thus, high concentration of ozone which occur at rural location such as Simcoe and Wesleyville are not indicative of natural or local sources but the transport and reaction in the presence of adequate sunlight of the ozone precursors from upwind urban sources.

The highest annual average ozone concentrations measured in Ontario were at the rural locations Simcoe (0.035 ppm), Wesleyville (0.034), Holland Marsh (0.031), Huron Park (0.030 ppm), and Orono (0.030 ppm). The maximum daily average occurred at Simcoe (0.116 ppm). All monitoring stations exceeded the Ontario ozone criterion for one hour of 0.080 ppm. Seven stations exceeded the criterion over 200 times: Simcoe (348), Wesleyville (304), Orono (252), Petrolia (249), Kitchener (240), Stouffville (210), and Windsor (201). The highest single hour measured occurred at Orono: 0.181 ppm.

Total Reduced Sulphur (see Table 10)

The first extensive monitoring of total reduced sulphur began in Ontario in 1976. Most of the total reduced sulphur may be found in the form of hydrogen sulphide.

In the vicinity of pulp and paper mills and refineries, significant concentrations of mercaptans and other reduced sulphurs may be present, however.

Maximum levels of total reduced sulphur occurred at Portage-Church in Fort Frances for all averaging times. The values were 16.1 ppb for 1 year, 183 ppb for 24 hours, and 540 ppb for 1 hour. Three of the eleven stations had hourly values which exceeded 100 ppb. No criteria have yet been set for total reduced sulphur.

Oxides of Nitrogen (see Tables 11, 12, and 13)

The oxides of nitrogen (NO and NO_2) are generated by natural as well as anthropogenic sources. Nitrogen and oxygen, which are the principal constituents of the atmosphere, combine during high temperature combustion to form nitrogen oxides (NO_x). The main sources of NO_x are automobile exhausts, power plants, incinerators and chemical processes.

No evidence exists that nitric oxide (NO) at the concentrations measured in the atmosphere has any direct adverse effect on health and welfare. Photochemical oxidation of nitric oxide to nitrogen dioxide (NO_2), however, does occur under certain conditions, and nitrogen dioxide is known to affect health as well as visibility. The nitrogen oxides also play an important role in the photochemical reactions involving ozone and other oxidants.

The highest annual level of nitrogen dioxides (0.046 ppm) was measured at the Barton-Wentworth site in Hamilton. The highest 24-hour average (0.12 ppm) was also measured at Barton-Wentworth, Hamilton. The maximum 1-hour concentration (0.24 ppm) was measured at Sherbourne/Wilton in Toronto. The established criterion for 24-hour average of NO_2 (0.10 ppm) was exceeded at three sites though none on more than 3 occasions. The hourly criterion was exceeded at two sites.

The maximum nitric oxide levels occurred at Pharmacy-401, Scarborough for all three averaging times: 0.129 ppm for the year; 0.40 ppm for a day; 0.96 ppm for an hour.

Nitrogen oxides, essentially the sum of the NO and NO_2 levels, were highest at sites adjacent to high traffic

density highways. The maximum annual average (0.165 ppm) occurred at Pharmacy-Hwy 401 in Scarborough. This site and the Sherbourne/Wilton site in Toronto both recorded a 1-hour average maximum of 1.02 ppm. The maximum 24-hour average was found at Bathurst-Wilson, North York (0.46 ppm).

Ontario's Air Pollution Index

An Air Pollution Index (API) based upon the 24-hour average concentration of sulphur dioxide and suspended particulate matter has been in use in Ontario since March 1970. Air Pollution Index stations were established in Toronto and Hamilton in 1970, Sudbury and Windsor in 1971, Welland and Niagara Falls in 1974, Coniston in 1975, New Sudbury in 1976, and Sarnia in 1977. The station opened in Happy Valley was discontinued in 1975 and the Welland station was closed in 1978. The API at all stations have a common basis; at an API of 32, the desirable air quality criteria for sulphur dioxide and soiling index on a 24-hour average are exceeded. When the API exceeds 50, health effects may increase in incidence, especially for the elderly and those with respiratory problems.

At an API of 32 with adverse weather conditions expected for the next 6 hours, suspected offending industries are alerted and may be asked to cut-back on their operations. At an API of 50 with adverse conditions expected for 6 hours, the Minister may order curtailment of industrial operations, and a shut-down may be ordered by the Minister if the Index exceeds 100.

Of the nine stations operational in 1978, none exceeded the level of 50, and six exceeded 32. Hamilton was on an advisory alert on seven occasions, Sarnia and Coniston on three occasions, Toronto twice, and New Sudbury and Windsor once each.

The history of the Index stations, the maximum level and the number of times the Index equalled or exceeded 32 and 50 for the years 1970 to 1978 are given in Table 14.

Table 1/1978 Stations with Continuous Sampling Instrumentation
(Pollutant data abstracted hourly or two-hourly)

REGION	STATION NUMBER	NAME OF STATION	UTM GRID		SITE ELEVATION ABOVE MEAN SEA LEVEL (METRES)	AIR INTAKE ABOVE GROUND (METRES)	POLLUTANT MONITORED								
			EAST	NORTH			TRS	SO ₂	COH	O ₃	CO	HC	NO ₂	NO	NOX
SOUTH WEST	10001	College of Agric. Tech., Huron Park	04600	47931	243	5				x					
	12002	City Hall Windsor	03323	46867	183	15			x						
	12008	467 University Ave. Windsor	03316	46867	183	11		x	x	x	x	x	x	x	x
	12010	Manning Road Pump Station	03460	46875	182	1			x						
	12013	Wyandotte St. Windsor	03358	46874	183	6		x	x						
	12014	Univ. Met. Stn. College/Calif. St. Windsor	03304	46849	183	1			x						
	12015	Hwy 18-Prospect Windsor	03283	46833	175	4		x	x						
	12016	College-South St. Windsor	03290	46841	183	4		x	x						
	12032	Morton Dock Windsor	03271	46817	177	4		x	x						
	13021	MOE Pump. Stn. Middle Road Merlin	03991	46776	190	3				x					
	14004	Hydro SS Concession 14/15 Courtright	03808	47343	183	3		x							
	14016	Lambton G.S. Hwy. 40 Courtright	03793	47397	180	4		x							
	14049	156 Victoria St. Sarnia	03854	47584	183	4	x	x	x	x	x	x	x	x	x
	14062	242 Indian Rd. S., Sarnia	03878	47578	183	4		x							
	14064	Centennial Park Front St/CN Tracks Sarnia	03854	47592	182	3		x	x	x	x	x	x	x	x
	14118	PUC Water Pump Stn. Hwy. 21 Petrolia	04027	47564	206	4				x					
	15001	King-Rectory London	04818	47595	259	4		x	x	x	x	x	x	x	x
	15003	362 Dundas St. London	04801	47590	251	17			x						
	18001	MacKenzie RR2 Tiverton	04541	49030	220	4	x	x							
WEST CENTRAL	21006	Post Office Brantford	05597	47763	221	16		x	x						
	22071	Experimental Farm Simcoe	05597	47449	236	4		x	x	x			x	x	x
	22086	Cheapside Rd. 3 Km S of Hwy 3 Nanticoke	05821	47472	206	5		x	x				x	x	x
	26001	Public Utilities Substation Waterloo	05397	48128	336	2			x						
	26029	Edna/Frederick St. Kitchener	05427	48116	325	5		x	x	x	x		x		
	26035	Uniroyal, 149 Strange St. Kitchener	05396	48109	336	6			x						
	27013	PS Victoria/Leader Niagara Falls	06570	47752	175	5		x	x						
	27027	PS 301 Beatrice St. Welland	06432	47587	183	3		x	x						
	27037	North/Geneva St. St. Catharines	06431	47805	107	5		x	x	x	x	x	x		
	27038	Rosehill/MacDonald Fort Erie	06649	47495	178	4		x							

Table 1/1978 – Continued . . .

REGION	STATION NUMBER	NAME OF STATION	UTM GRID		SITE ELEVATION ABOVE MEAN SEA LEVEL (METRES)	AIR INTAKE ABOVE GROUND (METRES)	POLLUTANT MONITORED								
			EAST	NORTH			TRS	SO ₂	COH	O ₃	CO	HC	NO ₂	NO	NOX
WEST CENTRAL	29001	Hughson-Main Hamilton	05918	47894	99	9			x						
	29008	North Park Hamilton	05984	47927	79	3	x	x	x				x	x	x
	29009	Kenilworth Hamilton	05967	47884	92	9			x						
	29012	Burlington-Wellington Hamilton	05931	47914	84	4			x						
	29015	Merrick St. Hamilton	05917	47900	92	17			x						
	29017	Chatham-Frid Hamilton	05898	47896	99	5			x						
	29025	Barton-Wentworth Hamilton	05939	47900	92	4	x	x	x	x	x	x	x	x	x
	29026	Brampton-Woodward Hamilton	05996	47895	84	4		x							
	29067	450 Hughson St. Hamilton	05925	47913	84	5			x						
	29080	City Hall Hamilton	05914	47895	107	9		x							
CENTRAL	31001	67 College St. 5th Floor Toronto	06300	48352	104	20		x	x	x	x	x	x	x	x
	31049	Mission, 381 Yonge Street, Toronto	06304	48351	91	4					x				
	31090	67 College St. 2nd Floor, Toronto	06300	48352	104	4					x				
	31105	Sherbourne/Wilton Toronto	06317	48338	76	5		x	x	x	x		x	x	x
	33002	Pharmacy-Hwy. 401 Scarborough	06357	48473	175	2		x	x		x	x	x	x	x
	33003	Lawrence-Kennedy Scarborough	06389	48452	168	3		x	x	x	x	x	x	x	x
	33019	Met. Branch, Scar. Bluffs, Scarborough	06422	48411	152	3		x	x						
	34002	Science Centre Don Mills, North York	06338	48419	107	9		x	x	x	x	x	x	x	x
	34007	Bathurst-Wilson North York	06261	48437	214	2		x	x		x	x	x	x	x
	35003	Elmcrest Rd. Etobicoke	06142	48338	152	4		x	x	x	x	x	x	x	x
	35005	Queensway Hospital Etobicoke	06149	48293	107	9		x	x						
	35008	22-36th St. Etobicoke	06190	48281	92	2			x						
	35033	Evans-Arnold Etobicoke	06192	48302	107	3		x	x	x	x	x	x	x	x
	35050	MOE Lab, Resources Road Etobicoke	06175	48405	152	18		x	x						
	44007	2037 Pine Burlington	05975	47975	79	6		x	x						
	44010	1298 Rebecca St. Oakville	06053	48078	92	5		x	x	x	x	x	x	x	x
	45024	206 Eulalie St. Oshawa	06723	48623	101	1			x						
	45125	Natural Res. Bldg. Orono	06907	48712	149	9				x					
	46025	Public Library Mississauga	06115	48257	137	5			x						
	46033	Fire Hall Bramalea	06053	48398	198	4			x						
	46100	Public School Green Glade Road, Mississauga	06124	48187	92	11		x	x						

Table 1/1978 — Continued...

REGION	STATION NUMBER	NAME OF STATION	UTM GRID		SITE ELEVATION ABOVE MEAN SEA LEVEL (METRES)	AIR INTAKE ABOVE GROUND (METRES)	POLLUTANT MONITORED								
			EAST	NORTH			TRS	SO ₂	COH	O ₃	CO	HC	NO ₂	NO	NOX
CEN-TRAL	46110	Queensway West/ Hurontario St. Mississauga	06122	48249	101	5		x	x	x	x		x	x	x
	47030	Muck Res. Stn. Hwy. 400/Canal Rd.	06124	48772	214	4				x					
	47041	Holland Marsh Fed. Manpower Bldg., 48 Owen St.	06044	49159	236	14		x	x						
	48002	Barrie MTC Yard	06391	48694	259	4		x	x	x					
	58034	Stouffville 1.6M West Hwy 28/ 5th Line Road,	07139	48770	152	3				x					
	59006	Wesleyville City Hall 500 George St. Peterborough	07137	49095	198	18		x	x						
SOUTH EAST	51001	McDonald Gdns Ottawa	04471	50312	61	4		x	x	x	x		x	x	x
	52018	1055 Princess St. Kingston	03788	48990	82	15			x						
	52020	Churchill Park Napier St. Kingston	03795	48986	82	5		x	x						
	56051	Memorial Park Cornwall	05208	49846	61	4	x	x	x	x	x		x	x	x
	56068	435 Second St. W. Cornwall	05205	49845	66	6	x								
NORTH WEST	61010	Lassie/Dickenson Roads Balmertown	04480	56670	381	3		x							
	61026	56 King St. Dryden	05117	55140	366	5	x								
	62030	Portage Church Fort Frances	04708	53838	336	4	x								
	62032	Cemetery Coloni- zation Road Fort Frances	04697	53841	336	5	x								
	63012	Dawson Court Thunder Bay	03372	53686	213	9		x							
	63022	Hospital 35 Algoma St. N. Thunder Bay	03356	53672	223	22		x	x						
	63040	435 James Street Thunder Bay	03302	53607	189	15		x	x						
	63046	Montreal St. Thunder Bay	03298	53584	191	15	x								
NORTH EAST	71001	29 Hillcrest Ave. Wawa	06655	53186	305	4		x							
	71002	Goudreau Algoma District	06835	53578	358	4		x							
	71022	Sault College Queens Street Sault Ste. Marie	07029	51550	210	5		x	x						
	75016	Dept. of Transport Verner	05668	51405	214	15		x							
	75020	Teacher's College North Bay	06185	51297	206	3		x	x						
	77001	Penage Sudbury Dist.	04730	51250	250	3		x							
	77009	Burwash Sudbury Dist.	05144	51228	229	3		x							
	77010	Callum Sudbury Dist.	05270	51525	250	3		x							
	77012	Skead Sudbury Dist.	05186	51678	274	3		x							

Table 1/1978 – Continued . . .

REGION	STATION NUMBER	NAME OF STATION	UTM GRID		SITE ELE- VATION ABOVE MEAN SEA LEVEL (METRES)	AIR INTAKE ABOVE GROUND (METRES)	POLLUTANT MONITORED								
			EAST	NORTH			TRS	SO ₂	COH	O ₃	CO	HC	NO ₂	NO	NOX
NORTH EAST	77013	Hanmer													
		Sudbury Dist.	05041	51663	290	3		x							
	77014	Rayside													
		Sudbury Dist.	04930	51600	250	3		x							
	77016	Ash Street													
		Sudbury	04994	51486	290	3		x	x	x	x		x	x	x
	77017	Morgan													
		Sudbury Dist.	04810	51637	274	3		x							
	77018	St. Charles													
		Sudbury Dist.	05449	51343	290	3		x							
	77019	Grassy Lake													
		Sudbury Dist.	05536	51854	259	3		x							
	77023	Happy Valley													
		Falconbridge	05146	51564	288	5		x	x						
	77026	19 Lisgar St.													
		Sudbury	05006	51485	274	14			x						
	77028	Government/Edward													
		Coniston	05118	51480	244	5		x	x						
	77052	Lockerby													
		Sudbury Airshed	04999	51444	274	5		x							
77065	Falconbridge Rd.														
	Sudbury	05109	51559	290	5		x								
77066	Temagami														
	Sudbury Airshed	05704	52022	296	5		x								
77067	Chiniguchi														
	Sudbury Airshed	05264	52064	317	5		x								
77075	Kennedy St.														
	New Sudbury	05044	51520	262	5		x	x							

Table 2/1978

Criteria for Desirable Air Quality. O. Reg. 872/74

ITEM	COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5
	NAME OF CONTAMINANT	UNIT OF MEASUREMENT	AVERAGE AMOUNT CONCENTRATION OR TOTAL AMOUNT OF CONTAMINANT	PERIOD OF TIME	APPROXIMATE EQUIVALENT AT 10°C AND 760 mm Hg PRESSURE
3	Carbon Monoxide	Parts of carbon monoxide per one million parts of air by volume	30	1 hour	36,200 ug/m ³
			13	8 hours	15,700 ug/m ³
16	Nitrogen Dioxide	Parts of nitrogen dioxide per one million parts of air by volume	0.20	1 hour	400 ug/m ³
			0.10	24 hours	200 ug/m ³
18	Ozone	Parts of ozone per one million parts of air by volume	0.08	1 hour	165 ug/m ³
19	Soiling	Coefficient of Haze per 1000 feet of air	1.0	24 hours	
			0.5	1 year	
21	Sulphur Dioxide	Parts of sulphur dioxide per one million parts of air by volume	0.25	1 hour	690 ug/m ³
			0.10	24 hours	275 ug/m ³
			0.02	1 year	55 ug/m ³

Table 3/1978 Summary of Data: Sulphur Dioxide (all values in p.p.m.)

Ontario Criteria — 1 Hour Average: 0.25 p.p.m.; 24-Hour Average: 0.10 p.p.m.; 1 Year Average: 0.02 p.p.m.

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES						ARITH- METIC MEAN	MAXIMUM		NUMBER OF TIMES ABOVE CRITERIA		
				10	30	50	70	90	99		1 HR.	24-HR.	1 HR.	24-HR.	1 YEAR
SOUTH WEST	12008	467 University Ave. Windsor	362	.000	.002	.009	.018	.037	.077	.018	.17	.06	NIL	NIL	NIL
	12013	Wyandotte St. Windsor	311	.000	.000	.000	.003	.014	.041	.006	.12	.05	NIL	NIL	NIL
	12015	Hwy 18—Prospect Windsor	338	.000	.000	.002	.008	.021	.051	.010	.10	.04	NIL	NIL	NIL
	12016	College—South St. Windsor	360	.000	.000	.006	.014	.030	.066	.015	.15	.05	NIL	NIL	NIL
	12032	Morton Dock Windsor	319	.000	.003	.008	.016	.029	.063	.016	.12	.05	NIL	NIL	NIL
	14004	Hydro SS Concession 14/15 Courtright	327	.000	.000	.000	.000	.012	.052	.005	.67	.09	7	NIL	NIL
	14016	Lambton G.S. Hwy 40 Courtright	340	.000	.002	.009	.017	.033	.079	.018	.32	.07	2	NIL	NIL
	14049	156 Victoria St. Sarnia	347	.000	.000	.005	.011	.043	.165	.019	.63	.14	17	5	NIL
	14062	242 Indian Rd. S. Sarnia	330	.000	.000	.001	.007	.022	.071	.010	.22	.05	NIL	NIL	NIL
	14064	Centennial Park Front St./CN Tracks Sarnia	152	.000	.000	.004	.011	.034	.126	.016	.48	.10	2	NIL	NIL
	15001	King—Rectory London	320	.000	.000	.002	.008	.019	.046	.009	.10	.05	NIL	NIL	NIL
	18001	MacKenzie, R.R. 2 Tiverton	332	.000	.000	.000	.000	.000	.009	.001	.07	.01	NIL	NIL	NIL
WEST CENTRAL	21006	Post Office Brantford	344	.000	.000	.000	.004	.012	.029	.006	.14	.04	NIL	NIL	NIL
	22071	Experimental Farm Simcoe	316	.000	.000	.000	.005	.015	.044	.007	.15	.06	NIL	NIL	NIL
	22086	Cheapside Rd. 3 km S of Hwy 3 Nanticoke	207	.000	.000	.003	.008	.019	.091	.011	.39	.08	6	NIL	NIL
	26029	Edna/Frederick St. Kitchener	337	.000	.000	.000	.002	.010	.029	.005	.07	.04	NIL	NIL	NIL
	27013	P.S. Victoria/Leader Niagara Falls	359	.000	.000	.002	.007	.016	.038	.008	.09	.04	NIL	NIL	NIL
	27027	P.S. 301 Beatrice St. Welland	291	.000	.003	.009	.018	.038	.076	.019	.30	.08	2	NIL	NIL
	27037	North/Geneva St. St. Catharines	325	.000	.000	.000	.006	.015	.036	.007	.15	.06	NIL	NIL	NIL
	27038	Rosehill/Mac Donald Fort Erie	315	.000	.000	.005	.010	.021	.050	.012	.15	.06	NIL	NIL	NIL
	29008	North Park Hamilton	354	.000	.000	.003	.010	.035	.068	.013	.13	.07	NIL	NIL	NIL
	29025	Barton—Wentworth Hamilton	363	.000	.001	.006	.014	.033	.079	.016	.29	.07	1	NIL	NIL
	29026	Brampton—Woodward Hamilton	142	.000	.001	.006	.013	.027	.057	.014	.10	.06	NIL	NIL	NIL
	29080	City Hall Hamilton	142	.000	.003	.009	.018	.035	.070	.018	.15	.06	NIL	NIL	NIL
CENTRAL	31001	67 College St. 5th Flr. Toronto	363	.000	.000	.002	.008	.023	.034	.011	.22	.09	NIL	NIL	NIL
	31105	Sherbourne/Wilton Toronto	355	.000	.000	.000	.007	.019	.048	.009	.15	.04	NIL	NIL	NIL
	33002	Pharmacy—Hwy 401 Scarborough	360	.000	.000	.003	.008	.019	.052	.010	.20	.07	NIL	NIL	NIL
	33003	Lawrence—Kennedy Scarborough	349	.000	.000	.000	.004	.012	.040	.006	.18	.07	NIL	NIL	NIL
	33019	Met. Branch Scarborough Bluffs Scarborough	315	.000	.001	.005	.010	.020	.048	.012	.18	.06	NIL	NIL	NIL
	34002	Science Centre Don Mills	150	.000	.000	.000	.006	.017	.049	.008	.14	.04	NIL	NIL	NIL
	34007	North York Bathurst—Wilson North York	358	.000	.000	.003	.008	.021	.059	.011	.19	.07	NIL	NIL	NIL

Table 3/1978 – Continued . . .

Region	Station Number	Location	No. of Days	Percentiles						Arith-Metic Mean	Maximum		Number of Times Above Criteria			
				10	30	50	70	90	99		1 hr.	24-hr.	1 hr.	24-hr.	1 Year	
CENTRAL	35003	Elmcrest Rd. Etobicoke	344	.000	.000	.000	.006	.017	.053	.008	.21	.06	NIL	NIL	NIL	
	35005	Queensway Hospital Etobicoke	346	.000	.000	.002	.007	.019	.057	.010	.25	.08	NIL	NIL	NIL	
	35033	Evans—Arnold Etobicoke	348	.000	.000	.000	.005	.014	.042	.007	.12	.05	NIL	NIL	NIL	
	35050	MOE Lab Resources Rd. Etobicoke	348	.000	.001	.006	.011	.025	.072	.014	.39	.07	2	NIL	NIL	
	44007	2037 Pine Burlington	293	.000	.000	.004	.009	.019	.038	.011	.10	.05	NIL	NIL	NIL	
	44010	1298 Rebecca St. Oakville	349	.000	.000	.002	.007	.018	.047	.009	.13	.08	NIL	NIL	NIL	
	46100	Public School Green Glade Rd. Mississauga	324	.000	.000	.003	.009	.021	.056	.011	.13	.07	NIL	NIL	NIL	
	46110	Queensway West/ Huronario St. Mississauga	316	.000	.000	.000	.005	.017	.054	.008	.22	.06	NIL	NIL	NIL	
	47041	Fed. Manpower Bldg. 48 Owen St. Barrie	311	.000	.000	.003	.008	.017	.036	.009	.07	.05	NIL	NIL	NIL	
	48002	MTC Yard Stouffville	293	.000	.000	.000	.002	.011	.017	.005	.13	.07	NIL	NIL	NIL	
	59006	City Hall 500 George St. Peterborough	325	.000	.000	.000	.000	.009	.029	.004	.08	.05	NIL	NIL	NIL	
	SOUTH EAST	51001	McDonald Gdns. Ottawa	335	.000	.000	.001	.011	.033	.061	.013	.15	.06	NIL	NIL	NIL
		52020	Churchill Park Napier St. Kingston	353	.000	.000	.000	.000	.008	.023	.003	.08	.03	NIL	NIL	NIL
56051		Memorial Park Cornwall	353	.000	.000	.006	.015	.037	.095	.017	.42	.09	2	NIL	NIL	
NORTH WEST		61010	Lassie/Dickenson Rds. Balmertown	335	.000	.000	.000	.000	.010	.330	.014	.75	.21	133	9	NIL
	63012	Dawson Court Thunder Bay	176	.000	.000	.000	.000	.000	.028	.002	.19	.02	NIL	NIL	NIL	
	63022	Hospital 35 Algoma St. N. Thunder Bay	156	.000	.000	.000	.000	.000	.002	.000	.05	.00	NIL	NIL	NIL	
	63040	435 James Street Thunder Bay	345	.000	.000	.000	.000	.000	.015	.001	.17	.02	NIL	NIL	NIL	
	NORTH EAST	71001	29 Hillcrest Ave. Wawa	344	.000	.000	.000	.000	.000	.318	.012	2.51	.27	102	11	NIL
71002		Goudreau Algoma District	131	.000	.000	.000	.000	.048	.278	.017	.66	.14	41	3	NIL	
71022		Sault College Queens St. Sault Ste. Marie	325	.000	.000	.000	.003	.013	.075	.008	.75	.13	9	3	NIL	
75016		Dept. of Transport Verner	357	.000	.000	.000	.000	.003	.026	.002	.33	.03	3	NIL	NIL	
75020		Teacher's College North Bay	322	.000	.000	.000	.000	.009	.038	.004	.22	.04	NIL	NIL	NIL	
77001		Penage Sudbury District	341	.000	.000	.000	.000	.005	.067	.004	.42	.07	6	NIL	NIL	
77009		Burwash Sudbury District	343	.000	.000	.000	.000	.007	.087	.005	.39	.10	9	NIL	NIL	
77010		Callum Sudbury District	349	.000	.000	.000	.000	.009	.086	.005	.34	.06	4	NIL	NIL	
77012		Skead Sudbury District	358	.000	.000	.000	.000	.012	.249	.011	.90	.16	84	5	NIL	
77013		Hanmer Sudbury District	339	.000	.000	.000	.000	.010	.099	.006	.55	.08	12	NIL	NIL	
77014		Rayside Sudbury District	348	.000	.000	.000	.000	.005	.055	.003	.75	.10	5	NIL	NIL	
77016		Ash Street Sudbury	364	.000	.000	.001	.007	.021	.130	.012	1.02	.11	22	1	NIL	

Table 3/1978 – Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES						ARITH- METIC MEAN	MAXIMUM		NUMBER OF TIMES ABOVE CRITERIA		
				10	30	50	70	90	99		1 HR.	24-HR.	1 HR.	24-HR.	1 YEAR
NORTH EAST	77017	Morgan Sudbury District	365	.000	.000	.000	.000	.000	.046	.002	.35	.06	1	NIL	NIL
	77018	St. Charles Sudbury District	355	.000	.000	.000	.000	.011	.046	.005	.23	.03	NIL	NIL	NIL
	77019	Grassy Lake Sudbury District	144	.000	.000	.000	.000	.007	.028	.003	.18	.03	NIL	NIL	NIL
	77023	Happy Valley Falconbridge	263	.000	.000	.000	.000	.019	.475	.019	1.65	.57	130	9	NIL
	77028	Government/Edward Coniston	360	.000	.000	.000	.005	.021	.176	.013	.91	.18	50	4	NIL
	77052	Lockerby Sudbury Airshed	336	.000	.000	.000	.000	.007	.108	.006	.75	.19	25	3	NIL
	77065	Falconbridge Rd. Sudbury	344	.000	.000	.000	.000	.016	.153	.009	.69	.10	27	NIL	NIL
	77066	Temagami Sudbury Airshed	142	.000	.000	.000	.000	.001	.028	.002	.16	.02	NIL	NIL	NIL
	77067	Chiniguchi Sudbury District	131	.000	.000	.000	.000	.009	.074	.005	.25	.05	NIL	NIL	NIL
	77075	Kennedy St. New Sudbury	359	.000	.000	.000	.007	.024	.156	.013	1.77	.19	36	2	NIL
ONTARIO HYDRO		4.9 km ENE Keith G.S.													
		Windsor	276	.001	.005	.010	.017	.031	.069	.014	.14	.04	NIL	NIL	NIL
		5.4 km E Keith G.S.	335	.002	.006	.010	.016	.030	.071	.014	.18	.07	NIL	NIL	NIL
		5.7 km ESE Keith G.S.	354	.000	.002	.006	.012	.027	.060	.011	.20	.04	NIL	NIL	NIL
		5.6 km SE Keith G.S.	241	.000	.000	.003	.008	.020	.058	.007	.11	.04	NIL	NIL	NIL
		6.8 km SSE Keith G.S.	306	.000	.000	.003	.008	.019	.053	.007	.52	.04	1	NIL	NIL
		7 km NE Lambton G.S.													
		Courtright	320	.000	.001	.004	.008	.021	.092	.009	.48	.05	2	NIL	NIL
		8 km ENE Lambton G.S.	310	.000	.000	.002	.006	.020	.071	.007	.19	.06	NIL	NIL	NIL
		5 km E Lambton G.S.	334	.000	.000	.002	.010	.022	.075	.008	.31	.06	5	NIL	NIL
		7 km ESE Lambton G.S.	323	.000	.001	.003	.007	.018	.078	.008	.24	.05	NIL	NIL	NIL
		6 km SE Lambton G.S.	248	.000	.000	.002	.005	.014	.059	.006	.50	.07	2	NIL	NIL
		7 km N Nanticoke G.S.													
		Nanticoke	303	.000	.000	.001	.005	.016	.054	.006	.39	.06	2	NIL	NIL
		15 km N Nanticoke G.S.	313	.000	.000	.002	.006	.015	.047	.006	.19	.06	NIL	NIL	NIL
		9 km NNE Nanticoke G.S.	280	.000	.000	.003	.008	.020	.075	.008	.71	.07	6	NIL	NIL
		16 km NNE Nanticoke G.S.	279	.000	.001	.002	.007	.019	.076	.008	.36	.06	2	NIL	NIL
		17 km NNE Nanticoke G.S.	192	.000	.000	.000	.003	.016	.055	.005	.24	.06	NIL	NIL	NIL
		10 km NE Nanticoke G.S.	182	.000	.000	.002	.006	.020	.059	.007	.14	.06	NIL	NIL	NIL
		19 km NE Nanticoke G.S.	276	.000	.000	.002	.007	.019	.057	.007	.23	.04	NIL	NIL	NIL
		11 km ENE Nanticoke G.S.	230	.000	.001	.002	.006	.015	.039	.006	.13	.03	NIL	NIL	NIL
		18 km ENE Nanticoke G.S.	344	.000	.000	.002	.007	.018	.045	.006	.16	.06	NIL	NIL	NIL
		5 km E Nanticoke G.S.	244	.000	.002	.004	.008	.018	.056	.008	.20	.06	NIL	NIL	NIL
		13 km W Nanticoke G.S.	191	.000	.001	.004	.008	.018	.039	.007	.26	.05	1	NIL	NIL
		3 km WNW Nanticoke G.S.	348	.000	.000	.002	.005	.012	.036	.005	.21	.04	NIL	NIL	NIL
		20 km WNW Nanticoke G.S.	286	.000	.001	.002	.005	.014	.046	.006	.13	.06	NIL	NIL	NIL

Table 3/1978 – Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES						ARITH-METIC MEAN	MAXIMUM		NUMBER OF TIMES ABOVE CRITERIA		
				10	30	50	70	90	99		1 HR.	24-HR.	1 HR.	24-HR.	1 YEAR
ONTARIO HYDRO		8 km NNW													
		Nanticoke G.S.	281	.000	.000	.002	.006	.017	.050	.006	.28	.06	2	NIL	NIL
		11 km NNW													
		Nanticoke G.S.	320	.000	.000	.002	.005	.015	.046	.006	.20	.06	NIL	NIL	NIL
		15 km NNW													
		Nanticoke G.S.	325	.000	.001	.003	.007	.016	.040	.006	.30	.04	1	NIL	NIL
		7 km NNE													
		Lakeview G.S.													
		Mississauga	357	.000	.002	.006	.012	.025	.062	.010	.14	.07	NIL	NIL	NIL
		5 km ENE													
		Lakeview G.S.	352	.000	.002	.004	.008	.022	.079	.009	.28	.07	1	NIL	NIL
		2 km W													
		Lakeview G.S.	345	.000	.002	.004	.009	.022	.066	.009	.14	.07	NIL	NIL	NIL
		7 km W													
		Lakeview G.S.	352	.000	.000	.003	.009	.020	.078	.008	.28	.06	1	NIL	NIL
		6 km NW													
		Lakeview G.S.	313	.000	.001	.004	.008	.018	.052	.007	.27	.06	1	NIL	NIL
		6 km NNW													
		Lakeview G.S.	277	.000	.000	.003	.009	.020	.064	.008	.44	.06	3	NIL	NIL
		9 km NNE													
		Hearn G.S.													
		Toronto	261	.000	.001	.004	.008	.022	.054	.008	.17	.08	NIL	NIL	NIL
		12 km NNE													
		Hearn G.S.	322	.000	.000	.000	.010	.020	.047	.006	.18	.07	NIL	NIL	NIL
		8 km NE													
		Hearn G.S.	233	.000	.004	.008	.014	.029	.081	.013	.22	.08	NIL	NIL	NIL
		15 km WSW													
		Hearn G.S.	352	.000	.002	.004	.008	.022	.079	.009	.28	.07	1	NIL	NIL
		7 km NNW													
		Hearn G.S.	267	.001	.004	.007	.012	.025	.065	.011	.22	.07	NIL	NIL	NIL
		10 km N													
		Lennox G.S.													
		Bath	357	.000	.000	.000	.002	.007	.023	.003	.22	.04	NIL	NIL	NIL
		7 km NE													
		Lennox G.S.	306	.000	.000	.000	.003	.008	.027	.003	.06	.04	NIL	NIL	NIL
		10 km SW													
		Lennox G.S.	272	.000	.000	.002	.004	.010	.029	.004	.07	.04	NIL	NIL	NIL
		10 km W													
		Lennox G.S.	225	.000	.000	.000	.002	.008	.025	.003	.07	.04	NIL	NIL	NIL
		10 km NW													
		Lennox G.S.	343	.000	.000	.001	.003	.009	.028	.003	.08	.05	NIL	NIL	NIL
		4 km N													
		Thunder Bay G.S.													
		Thunder Bay	339	.000	.000	.001	.003	.010	.041	.004	.15	.03	NIL	NIL	NIL
		5 km WSW													
		Thunder Bay G.S.	215	.000	.000	.000	.000	.010	.050	.003	.37	.03	1	NIL	NIL
		5 km W													
		Thunder Bay G.S.	361	.000	.000	.000	.003	.010	.032	.004	.16	.02	NIL	NIL	NIL
		4 km WNW													
		Thunder Bay G.S.	345	.000	.000	.000	.002	.010	.028	.003	.29	.02	1	NIL	NIL
		8 km NNW													
		Thunder Bay G.S.	228	.000	.000	.000	.002	.007	.020	.002	.11	.14	NIL	NIL	NIL

Table 4/1978 Summary of Data: Soiling Index – 1 Hour (all values are in COH's/1,000 ft.)

Ontario Criteria – 24-Hour Average—1.0 COH's/1,000 ft. 1 Year Average—0.5 COH's/1,000 ft.

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES						ARITH-METIC MEAN	MAXIMUM		NUMBER OF TIMES ABOVE CRITERIA	
				10	30	50	70	90	99		1 HR.	24-HR.	24-HR.	1 YEAR
SOUTH WEST	12008	467 University Ave.												
		Windsor	354	.09	.24	.38	.57	.94	1.76	.51	3.9	1.8	11	1
	12016	College-South St.												
		Windsor	361	.02	.20	.31	.47	.82	1.59	.44	3.1	1.3	5	NIL
	14049	156 Victoria St.												
		Sarnia	232	.00	.13	.25	.40	.69	1.20	.35	2.9	1.0	NIL	NIL

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES						ARITH- METIC MEAN	MAXIMUM		NUMBER OF TIMES ABOVE CRITERIA	
				10	30	50	70	90	99		1 HR.	24-HR.	24-HR.	1 YEAR
SOUTH WEST	14064	Centennial Park Front St./CN Tracks												
		Sarnia	157	.00	.11	.21	.35	.67	1.27	.32	2.4	1.2	2	NIL
	15001	King-Rectory London	361	.00	.10	.23	.37	.65	1.33	.32	3.3	1.4	2	NIL
WEST CENTRAL	22071	Experimental Farm Simcoe	318	.00	.04	.16	.26	.46	.88	.24	2.6	1.0	NIL	NIL
	27013	P.S. Victoria/Leader Niagara Falls	361	.00	.13	.24	.38	.67	1.26	.34	3.7	1.2	2	NIL
	27027	P.S. 301 Beatrice St. Welland	292	.00	.05	.19	.31	.59	1.12	.28	2.2	0.9	NIL	NIL
	29008	North Park Hamilton	360	.00	.23	.53	.89	1.34	1.97	.67	3.3	1.6	78	1
	29025	Barton-Wentworth Hamilton	361	.11	.26	.40	.62	1.08	1.94	.56	3.7	2.2	26	1
CENTRAL	31001	67 College St., 5th floor Toronto	363	.00	.17	.27	.43	.76	1.41	.40	3.3	1.5	4	NIL
	31105	Sherbourne/Wilton Toronto	361	.14	.28	.44	.66	1.07	2.08	.59	4.0	1.7	21	NIL
	33002	Pharmacy-Hwy. 401 Scarborough	353	.00	.17	.30	.50	.88	1.60	.43	3.9	1.3	6	NIL
	33003	Lawrence-Kennedy Scarborough	356	.00	.15	.27	.44	.84	1.74	.41	3.7	1.4	10	NIL
	34002	Science Centre Don Mills												
		North York	156	.00	.15	.27	.43	.76	1.51	.39	2.4	1.5	3	NIL
	34007	Bathurst-Wilson North York	362	.00	.17	.34	.62	1.08	1.88	.51	3.8	2.1	23	NIL
	35003	Elmcrest Rd. Etobicoke	239	.00	.06	.17	.29	.59	1.15	.28	2.6	1.1	1	NIL
	35033	Evans-Arnold Etobicoke	354	.00	.19	.32	.49	.85	1.63	.44	3.5	1.8	4	NIL
NORTH EAST	77016	Ash St. Sudbury	364	.00	.00	.00	.14	.29	.79	.13	4.0	0.9	NIL	NIL
	77028	Government/Edward Coniston	359	.00	.00	.02	.16	.38	.98	.16	4.0	0.8	NIL	NIL
	77075	Kennedy St. New Sudbury	358	.00	.00	.00	.15	.30	.78	.13	1.5	0.5	NIL	NIL

Table 5/1978 Summary of Data: Soiling Index — 2 Hour (all values are in COH's/1,000 ft.)

Ontario Criteria — 24-Hour Average—1.0 COH's/1,000 ft. 1 Year Average—0.5 COH's/1,000 ft.

[illegible]

Table 5/1978 – Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES						ARITH-METIC MEAN	MAXIMUM		NUMBER OF TIMES ABOVE CRITERIA	
				10	30	50	70	90	99		2 HR.	24-HR	24-HR	1 YEAR
WEST CENTRAL	21006	Post Office												
		Brantford	307	.00	.00	.13	.20	.38	.71	.19	1.8	0.6	NIL	NIL
	22086	Cheapside Rd.												
		3 Km S. of Hwy. 3												
		Nanticoke	192	.00	.00	.00	.13	.23	.50	.11	1.1	0.4	NIL	NIL
	26001	Public Utilities Substation												
		Waterloo	338	.00	.00	.09	.17	.29	.70	.15	1.5	0.7	NIL	NIL
	26029	Edna/Frederick St.												
		Kitchener	350	.00	.10	.17	.27	.59	1.39	.28	2.8	1.3	2	NIL
	26035	Uniroyal												
		149 Strange St.												
		Kitchener	126	.00	.06	.14	.21	.38	.88	.21	2.1	1.1	1	NIL
	27037	North/Geneva St.												
		St. Catharines	358	.00	.01	.14	.21	.40	.78	.20	2.8	0.7	NIL	NIL
CENTRAL	29001	Hughson-Main												
		Hamilton	350	.00	.08	.16	.25	.49	1.16	.25	2.0	1.0	NIL	NIL
	29009	Kenilworth												
		Hamilton	306	.00	.00	.11	.17	.28	.66	.15	1.5	0.5	NIL	NIL
	29012	Burlington-Wellington												
		Hamilton	317	.00	.00	.11	.18	.29	.64	.16	0.9	0.4	NIL	NIL
	29015	Merrick St.												
		Hamilton	321	.00	.08	.17	.28	.61	1.28	.28	2.8	1.2	1	NIL
	29017	Chatham-Frid												
		Hamilton	329	.00	.07	.16	.25	.48	1.10	.25	4.4	1.1	1	NIL
	29067	450 Hughson St.												
		Hamilton	346	.00	.06	.16	.24	.46	.88	.23	2.3	0.9	NIL	NIL
	33019	Met. Branch												
		Scar. Bluffs												
SOUTH-EAST		Scarborough	363	.00	.00	.12	.19	.32	.67	.17	1.2	0.5	NIL	NIL
	35005	Queensway Hospital												
		Etobicoke	362	.00	.00	.14	.22	.46	1.03	.21	5.4	0.8	NIL	NIL
	35008	22-36th St.												
		Etobicoke	343	.00	.00	.11	.18	.30	.68	.16	1.2	0.5	NIL	NIL
	35050	MOE Lab.												
		Resources Rd.												
		Etobicoke	365	.00	.03	.16	.25	.49	1.09	.24	2.1	0.8	NIL	NIL
	44007	2037 Pine												
		Burlington	336	.00	.00	.10	.18	.43	.87	.18	1.7	0.6	NIL	NIL
	44010	1298 Rebecca St.												
		Oakville	354	.00	.00	.11	.19	.43	1.03	.19	2.1	1.0	NIL	NIL
	45024	206 Eulalie St.												
		Oshawa	188	.00	.12	.20	.34	.65	1.26	.32	2.7	0.9	NIL	NIL
SOUTH-EAST	46025	Public Library												
		Mississauga	350	.00	.00	.15	.24	.48	.95	.23	2.2	0.8	NIL	NIL
	46033	Fire Hall												
		Bramalea	356	.00	.00	.00	.08	.18	.36	.08	0.7	0.2	NIL	NIL
	46100	Public School												
		Green Glade Rd.												
		Mississauga	359	.00	.00	.13	.20	.39	.82	.19	2.0	0.6	NIL	NIL
	46110	Queensway West/												
		Hurontario St.												
		Mississauga	359	.00	.06	.17	.26	.50	1.11	.26	2.6	1.1	NIL	NIL
	47041	Fed. Manpower Bldg.												
		48 Owen St.												
		Barrie	354	.00	.00	.12	.20	.43	1.05	.20	2.0	0.9	NIL	NIL
	48002	MTC Yard												
		Stouffville	343	.00	.00	.00	.11	.19	.41	.09	0.7	0.3	NIL	NIL
SOUTH-EAST	59006	City Hall												
		500 George St.												
		Peterborough	274	.00	.00	.13	.20	.40	.88	.19	2.6	0.7	NIL	NIL
	51001	McDonald Gdns.												
		Ottawa	261	.00	.00	.11	.17	.29	.65	.16	1.9	0.5	NIL	NIL
SOUTH-EAST	52018	1055 Princess St.												
		Kingston	323	.00	.00	.09	.17	.28	.61	.15	1.3	0.5	NIL	NIL
	52020	Churchill Park												
		Napier St.												
		Kingston	342	.00	.00	.10	.17	.29	.64	.15	1.3	0.6	NIL	NIL
SOUTH-EAST	56051	Memorial Park												
		Cornwall	327	.00	.00	.13	.19	.34	.88	.18	2.3	0.8	NIL	NIL

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES						ARITH- METIC MEAN	MAXIMUM		NUMBER OF TIMES ABOVE CRITERIA	
				10	30	50	70	90	99		2 HR.	24-HR	24-HR	1 YEAR
NORTH-WEST	63022	Hospital 35 Algoma St. N. Thunder Bay	248	.00	.00	.11	.18	.30	.65	.16	1.7	0.5	NIL	NIL
	63040	435 James St., Thunder Bay	287	.00	.00	.04	.15	.26	.55	.13	1.5	0.4	NIL	NIL
NORTH-EAST	71022	Sault College Queens St. Sault Ste. Marie	283	.00	.06	.17	.28	.62	1.36	.28	2.5	1.1	1	NIL
	75020	Teacher's College North Bay	334	.00	.00	.11	.18	.34	.90	.17	1.6	0.7	NIL	NIL
	77023	Happy Valley Falconbridge	245	.00	.00	.00	.13	.24	.47	.11	2.7	0.3	NIL	NIL
	77026	Lisgar St., Sudbury	277	.00	.00	.13	.20	.39	.82	.19	1.8	1.0	NIL	NIL

Table 6/1978 Summary of Data: Carbon Monoxide (all values are in p.p.m.)

Ontario Criteria — 1 Hour Average: 30 p.p.m. 8 Hour Average: 13 p.p.m.

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES						ARITH- METIC MEAN	MAXIMUM		NUMBER OF TIMES ABOVE CRITERIA	
				10	30	50	70	90	99		1 HR.	8-HR.	1 HR.	8-HR.
SOUTH- WEST	12008	467 University Ave. Windsor	362	0.7	1.2	1.6	1.9	2.7	4.7	2.2	17	8	NIL	NIL
	14049	156 Victoria St. Sarnia	198	0.0	0.2	0.6	1.0	1.9	3.8	1.2	8	5	NIL	NIL
	14064	Centennial Park Front St./CN Tracks	162	0.0	0.0	0.0	0.0	0.7	1.9	0.4	11	5	NIL	NIL
	15001	King-Rectory London	345	0.0	0.0	0.2	0.7	1.5	4.4	0.9	15	7	NIL	NIL
WEST CENTRAL	26029	Edna/Frederick St. Kitchener	346	0.0	0.4	0.7	1.2	2.0	5.2	1.4	16	7	NIL	NIL
	27037	North/Geneva St. St. Catharines	352	0.0	0.1	0.4	0.7	1.4	3.0	0.9	8	5	NIL	NIL
	29025	Barton-Wentworth Hamilton	284	0.0	0.2	0.6	1.0	1.9	4.0	1.2	9	5	NIL	NIL
CENTRAL	31001	67 College St., 5th floor Toronto	357	0.2	0.8	1.2	1.7	2.4	4.0	1.8	13	9	NIL	NIL
	31049	Mission 381 Yonge St. Toronto	197	0.6	1.9	3.2	5.4	10.7	30.2	5.4	47	35	50	47
	31090	67 College St., 2nd floor Toronto	364	1.2	2.0	2.7	3.6	5.3	9.3	3.5	29	15	NIL	1
	31105	Sherbourne/Wilton Toronto	361	0.1	0.4	0.7	1.2	2.0	4.4	1.5	18	8	NIL	NIL
	33002	Pharmacy-Hwy. 401 Toronto	335	0.2	0.8	1.3	1.8	2.9	5.7	2.0	15	7	NIL	NIL
	33003	Lawrence-Kennedy Scarborough	353	0.2	0.6	1.2	1.9	3.2	6.1	2.0	13	8	NIL	NIL
	34002	Science Centre Don Mills	156	0.2	0.9	1.3	1.7	2.6	5.3	1.9	9	7	NIL	NIL
	34007	Bathurst-Wilson North York	355	1.1	1.5	1.9	2.7	4.0	6.8	2.8	15	8	NIL	NIL
	35003	Elmcrest Rd. Etobicoke	358	0.1	0.5	0.8	1.4	2.3	4.6	1.6	11	6	NIL	NIL
	35033	Evans-Arnold Etobicoke	358	0.2	0.7	1.2	1.7	2.6	4.7	1.8	11	7	NIL	NIL
	44010	1298 Rebecca St. Oakville	358	0.1	0.5	0.9	1.4	2.0	4.0	1.6	17	8	NIL	NIL
	46110	Queensway West/ Huronario St. Mississauga	359	0.3	1.0	1.3	1.7	2.1	4.6	1.9	15	6	NIL	NIL

Table 6/1978 — Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES						ARITH-METIC MEAN	MAXIMUM		NUMBER OF TIMES ABOVE CRITERIA	
				10	30	50	70	90	99		1 HR.	8-HR.	1 HR.	8-HR.
SOUTH-EAST	51001	McDonald Gdn. Ottawa	342	0.0	0.0	0.0	0.4	0.9	2.8	0.5	19	10	NIL	NIL
	56051	Memorial Park Cornwall	343	0.0	0.0	0.0	0.3	0.9	2.4	0.5	13	7	NIL	NIL
NORTH-EAST	77016	Ash Street Sudbury	360	0.0	0.0	0.0	0.0	0.7	2.5	0.3	6	4	NIL	NIL

Table 7/1978 Summary of Data: Total Hydrocarbons (all values are in p.p.m.)
No Existing Criteria

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES						ARITH-METIC MEAN	MAXIMUM	
				10	30	50	70	90	99		1-HR.	24-HR.
SOUTH-WEST	12008	467 University Ave. Windsor	343	1.61	1.88	2.11	2.38	2.96	5.10	2.27	9.8	5.4
	14049	156 Victoria St. Sarnia	197	1.91	2.11	2.35	2.76	3.55	5.56	2.64	11.4	4.6
	14064	Centennial Park Front St./CN Tracks	146	1.22	1.40	1.54	1.75	2.34	3.95	1.74	7.0	3.4
	15001	Sarnia King-Rectory	328	1.75	2.01	2.24	2.51	3.05	5.31	2.43	15.3	6.4
		London										
CENTRAL	31001	67 College St., 5th floor Toronto	317	0.95	1.19	1.36	1.55	1.96	3.20	1.48	8.8	3.4
	33002	Pharmacy-Hwy. 401 Scarborough	112	1.81	2.04	2.14	2.27	2.54	3.24	2.22	5.0	2.9
	33003	Lawrence-Kennedy Scarborough	346	1.41	1.58	1.72	1.90	2.37	3.83	1.87	13.5	3.4
	34002	Science Centre, Don Mills North York	153	1.42	1.57	1.71	1.99	2.98	5.08	2.03	7.9	3.9
	34007	Bathurst-Wilson North York	347	1.52	1.76	1.94	2.17	2.61	3.72	2.07	7.6	3.7
	35003	Elmcrest Rd. Etobicoke	356	2.03	2.21	2.35	2.56	3.17	4.84	2.56	13.8	4.0
	35033	Evans-Arnold Etobicoke	349	1.23	1.42	1.57	1.76	2.19	3.45	1.72	6.6	3.0
	44010	1298 Rebecca St. Oakville	231	1.60	1.82	2.00	2.20	2.67	3.63	2.12	7.2	3.5

Table 8/1978 Summary of Data: Reactive Hydrocarbons (all values are in p.p.m.)
No Existing Criteria

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES						ARITH-METIC MEAN	MAXIMUM	
				10	30	50	70	90	99		1-HR.	24-HR.
WEST CENTRAL	27037	North/Geneva Sts. St. Catharines	213	0.02	0.09	0.16	0.24	0.46	1.23	0.27	3.9	1.3
	29025	Barton-Wentworth Hamilton	306	0.52	1.09	1.63	2.10	2.86	4.07	1.72	5.4	4.0
CENTRAL	31001	67 College St., 5th floor Toronto	279	0.00	0.09	0.19	0.29	0.54	1.31	0.29	5.9	1.5

Table 9/1978 Summary of Data: Ozone (all values in p.p.m.)

Ontario Criteria — 1 Hour Average: 0.08 p.p.m.

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES						ARITH- METIC MEAN	MAXIMUM		NUMBER OF TIMES ABOVE CRITERION 1 HR.
				10	30	50	70	90	99		1 HR.	24-HR.	
SOUTH- WEST	10001	College of Agric. Tech. Huron Park	353	.008	.019	.027	.035	.052	.089	.030	.134	.098	196
	12008	467 University Ave. Windsor	354	.000	.003	.010	.022	.044	.098	.018	.211	.077	201
	13021	MOE Pump Station Middle Rd. Merlin	342	.006	.015	.024	.034	.053	.093	.028	.137	.101	200
	14049	156 Victoria St. Sarnia	198	.003	.014	.021	.027	.040	.081	.023	.129	.060	51
	14064	Centennial Park Front St./CN Tracks Sarnia	161	.000	.006	.014	.022	.041	.087	.018	.142	.055	56
	14118	PUC Water Pump Stn. Hwy. 21 Petrolia	297	.004	.016	.025	.036	.055	.106	.029	.148	.091	249
	15001	King-Rectory London	361	.000	.008	.016	.025	.043	.082	.020	.111	.069	102
WEST CENTRAL	22071	Experimental Farm Simcoe	349	.009	.020	.030	.044	.066	.107	.035	.171	.116	348
	26029	Edna/Frederick St. Kitchener	323	.008	.013	.025	.035	.055	.096	.028	.137	.097	240
	27037	North/Geneva St. St. Catharines	359	.001	.010	.019	.030	.052	.090	.024	.148	.084	190
	29025	Barton-Wentworth Hamilton	347	.000	.005	.012	.020	.037	.078	.016	.119	.074	71
CENTRAL	31001	67 College St., 5th floor Toronto	364	.000	.005	.012	.021	.038	.081	.017	.135	.066	99
	31105	Sherbourne/Wilton Toronto	364	.000	.003	.007	.015	.028	.062	.012	.102	.052	19
	33003	Lawrence-Kennedy Scarborough	364	.000	.005	.012	.021	.039	.084	.017	.128	.064	111
	34002	Science Centre Don Mills											
		North York	156	.000	.002	.008	.017	.035	.098	.014	.140	.064	77
	35003	Elmcrest Rd. Etobicoke	361	.000	.005	.014	.023	.043	.090	.019	.135	.089	180
	35033	Evans-Arnold Etobicoke	343	.000	.003	.007	.014	.032	.074	.013	.116	.057	52
	44010	1298 Rebecca St. Oakville	325	.000	.008	.017	.026	.042	.085	.020	.142	.069	94
	45125	Natural Res. Bldg. Orono	345	.006	.019	.027	.036	.054	.099	.030	.181	.087	252
	46110	Queensway West/ Hurontario St. Mississauga	358	.000	.006	.015	.025	.040	.076	.019	.129	.056	60
	47030	Muck Res. Stn. Hwy. 400/ Canal Rd.											
		Holland Marsh	60	.000	.011	.027	.042	.074	.102	.031	.124	.066	91
	48002	MTC Yard Stouffville	365	.005	.015	.023	.036	.058	.090	.029	.142	.077	210
	58034	1.6 m West Hwy. 28/ 5th Line Rd. Wesleyville	248	.008	.022	.031	.040	.061	.109	.034	.171	.084	305
SOUTH- EAST	51001	McDonald Gdns. Ottawa	323	.000	.008	.016	.024	.039	.078	.019	.133	.079	66
	56051	Memorial Park Cornwall	360	.004	.014	.022	.030	.052	.089	.026	.116	.090	158
NORTH- EAST	77016	Ash Street Sudbury	361	.005	.010	.014	.020	.034	.071	.018	.118	.088	44

No Existing Criteria

[illegible]

Ontario Criteria — 1 Hour Average: 0.20 p.p.m. 24-Hour Average: 0.10 p.p.m.

[illegible]

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES						ARITH- METIC MEAN	MAXIMUM		NUMBER OF TIMES ABOVE CRITERION	
				10	30	50	70	90	99		1 HR.	24-HR.	1 HR.	24-HR.
CENTRAL	34002	Science Centre Don Mills North York	156	.004	.012	.019	.027	.039	.076	.026	.12	.09	NIL	NIL
	34007	Bathurst-Wilson North York	357	.008	.019	.028	.039	.064	.109	.038	.18	.11	NIL	1
	35003	Elmcrest Rd. Etobicoke	362	.003	.011	.017	.025	.038	.064	.025	.12	.06	NIL	NIL
	35033	Evans-Arnold Etobicoke	342	.012	.021	.027	.035	.048	.071	.034	.13	.07	NIL	NIL
	44010	1298 Rebecca St. Oakville	290	.000	.006	.012	.019	.034	.059	.020	.15	.05	NIL	NIL
	46110	Queensway West/ Hurontario St. Mississauga	332	.004	.012	.018	.025	.038	.068	.025	.12	.07	NIL	NIL
	SOUTH- EAST	51001	McDonald Gardens Ottawa	364	.000	.005	.011	.018	.031	.053	.018	.09	.05	NIL
	56051	Memorial Park Cornwall	360	.000	.001	.005	.010	.022	.044	.012	.10	.05	NIL	NIL
NORTH- EAST	77016	Ash Street Sudbury	331	.000	.003	.006	.009	.019	.038	.012	.09	.05	NIL	NIL

Table 12/1978 Summary of Data: Nitric Oxide (all values in p.p.m.)
No Existing Criteria

[illegible]

Table 12/1978 – Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES						ARITH-METIC MEAN	MAXIMUM	
				10	30	50	70	90	99		1-HR.	24-HR.
CENTRAL	46110	Queensway West/ Hurontario St. Mississauga	319	.000	.006	.015	.029	.073	.214	.034	.95	.19
SOUTH-EAST	51001	McDonald Gdns. Ottawa	256	.000	.000	.005	.014	.044	.176	.020	.62	.16
	56051	Memorial Park Cornwall	363	.000	.000	.000	.002	.011	.114	.008	.74	.12
NORTH-EAST	77016	Ash Street Sudbury	335	.000	.000	.000	.002	.010	.092	.007	.27	.10

**Table 13/1978 Summary of Data: Nitrogen Oxides (all values in p.p.m.)
No Existing Criteria**

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES						ARITH-METIC MEAN	MAXIMUM	
				10	30	50	70	90	99		1 HR.	24-HR.
SOUTH-WEST	12008	467 University Ave. Windsor	358	.021	.037	.051	.071	.116	.240	.068	.96	.26
	14049	156 Victoria St. Sarnia	155	.014	.029	.040	.056	.090	.172	.053	.30	.15
	14064	Centennial Park Front St./CN Tracks Sarnia	87	.010	.021	.030	.045	.073	.142	.043	.39	.09
	15001	King-Rectory London	231	.011	.024	.036	.053	.090	.230	.052	.51	.22
	22071	Experimental Farm Simcoe	286	.002	.007	.012	.018	.029	.053	.019	.10	.05
WEST-CENTRAL	22086	Cheapside Rd. 3 Km S. of Hwy. 3 Nanticoke	194	.000	.002	.006	.010	.025	.064	.014	.12	.06
	29008	North Park Hamilton	311	.001	.039	.093	.147	.217	.350	.110	.76	.30
	29025	Barton-Wentworth Hamilton	360	.015	.036	.057	.083	.129	.251	.073	.64	.22
	31001	67 College St., 5th floor Toronto	364	.015	.029	.040	.056	.091	.191	.054	.49	.21
	31105	Sherbourne/Wilton Toronto	363	.027	.044	.062	.087	.144	.315	.083	1.02	.30
CENTRAL	33002	Pharmacy-Hwy. 401 Scarborough	333	.020	.049	.102	.218	.373	.642	.165	1.02	.43
	33003	Lawrence-Kennedy Scarborough	358	.016	.038	.059	.087	.146	.330	.080	.89	.25
	34002	Science Centre Don Mills, North York	156	.009	.021	.035	.056	.119	.408	.062	.76	.29
	34007	Bathurst-Wilson North York	355	.016	.036	.079	.168	.310	.561	.133	.98	.46
	35003	Elmcrest Rd. Etobicoke	361	.007	.019	.029	.047	.100	.144	.279	.68	.24
	35033	Evans-Arnold Etobicoke	324	.025	.049	.073	.108	.186	.410	.099	.81	.29
	44010	1298 Rebecca St. Oakville	286	.007	.020	.030	.046	.093	.215	.048	.51	.14
	46110	Queensway West/ Hurontario St. Mississauga	317	.015	.027	.038	.056	.108	.251	.058	.71	.16
	51001	McDonald Gdns. Ottawa	256	.003	.011	.019	.034	.070	.190	.036	.53	.20
	56051	Memorial Park Cornwall	360	.000	.002	.008	.016	.037	.155	.020	.79	.15
NORTH-EAST	77016	Ash Street Sudbury	331	.000	.004	.008	.016	.034	.131	.019	.32	.15

Table 14/1978 Ontario's Air Pollution Index

Date Started:	TORONTO	—	MARCH 23, 1970	WELLAND	—	JANUARY 1, 1974 (Closed Oct. 1978)
	HAMILTON	—	JUNE 15, 1970	NIAGARA FALLS	—	NOVEMBER 1, 1974
	SUDBURY	—	JANUARY 16, 1971	CONISTON	—	FEBRUARY 18, 1975
	WINDSOR	—	MARCH 19, 1971	NEW SUDBURY	—	MARCH 1, 1976
	HAPPY VALLEY	—	MAY 13, 1971 (Closed Jan. 1975)	SARNIA	—	DECEMBER 1, 1977
YEAR	CITY	NUMBER OF OCCASIONS		MAXIMUM INDEX	DATE OF MAXIMUM	
		≥ 32	≥ 50			
1970	TORONTO	17	2	56	OCT.	8
	HAMILTON	2	1	56	OCT.	8
1971	TORONTO	19	1	52	APR.	13
	HAMILTON	23	NIL	48	OCT.	21
	SUDBURY	26	3	87	DEC.	11
	WINDSOR	2	NIL	33	NOV.	10
	HAPPY VALLEY	20	7	64	NOV.	21
1972	TORONTO	2	NIL	45	FEB.	13
	HAMILTON	6	NIL	41	FEB.	13
	SUDBURY	7	1	79	JUNE	12
	WINDSOR	9	1	53	JAN.	29
	HAPPY VALLEY	20	11	139	MAR.	23
1973	TORONTO	3	NIL	43	OCT.	24
	HAMILTON	2	NIL	34	FEB.	14
	SUDBURY	NIL	NIL	26	MAR.	14
	WINDSOR	7	NIL	44	FEB.	19
	HAPPY VALLEY	19	10	94	AUG.	21
1974	TORONTO	3	1	50	OCT.	29
	HAMILTON	11	NIL	44	OCT.	29
	SUDBURY	1	NIL	32	JULY	13
	WINDSOR	2	NIL	41	JAN.	7
	HAPPY VALLEY	24	13	116	APR.	23
	WELLAND	46	15	77	OCT.	6
	NIAGARA FALLS	NIL	NIL	20	NOV.	9
1975	TORONTO	2	1	62	NOV.	20
	HAMILTON	10	NIL	38	OCT.	24
	SUDBURY	NIL	NIL	30	FEB.	1
	WINDSOR	NIL	NIL	28	FEB.	11
	WELLAND	NIL	NIL	23	JAN.	24
	NIAGARA FALLS	NIL	NIL	21	NOV.	24
	CONISTON	NIL	NIL	30	MAY	13
1976	TORONTO	1	NIL	33	OCT.	3
	HAMILTON	8	NIL	41	DEC.	16
	SUDBURY	NIL	NIL	28	JUNE	6
	WINDSOR	1	NIL	34	DEC.	16
	WELLAND	NIL	NIL	24	DEC.	16
	NIAGARA FALLS	NIL	NIL	25	FEB.	21
	CONISTON	NIL	NIL	29	SEPT.	16
	NEW SUDBURY	NIL	NIL	29	APR. 2, 3 & JUNE	20
1977	TORONTO	4	NIL	36	JAN.	15
	HAMILTON	10	NIL	44	MAR.	12
	SUDBURY	NIL	NIL	24	JUNE	11
	WINDSOR (12008)	1	NIL	33	APR.	19
	WELLAND	NIL	NIL	22	JAN. 24, 25	
	NIAGARA FALLS	NIL	NIL	28	FEB.	21
	CONISTON	NIL	NIL	25	APR.	25
	WINDSOR (12016)	NIL	NIL	29	APR.	19
	NEW SUDBURY	1	NIL	39	JUNE	11
1978	SARNIA	NIL	NIL	15	DEC.	13
	TORONTO	2	NIL	45	NOV.	5
	HAMILTON	7	NIL	43	NOV.	4
	SUDBURY	NIL	NIL	31	JAN.	22
	WINDSOR (12008)	1	NIL	33	APR.	19
	WELLAND	NIL	NIL	24	MAR.	15
	NIAGARA FALLS	NIL	NIL	23	NOV. 4 &	
	CONISTON	3	NIL	34	FEB.	7
	WINDSOR (12016)	NIL	NIL	28	FEB.	18
	NEW SUDBURY	1	NIL	42	FEB.	2
	SARNIA	3	NIL	41	JAN.	24

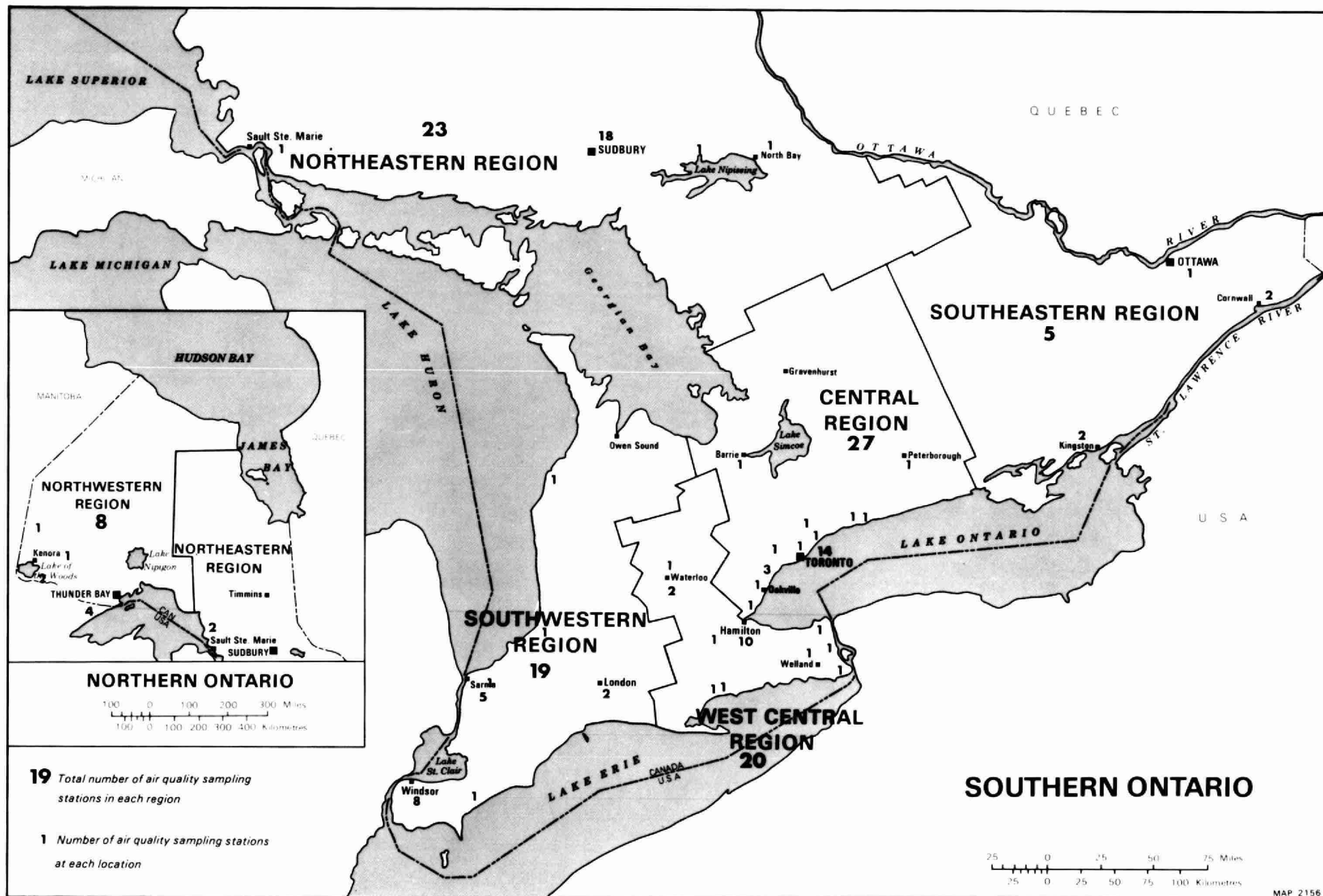


Figure 1. Locations of sampling stations in Ontario.

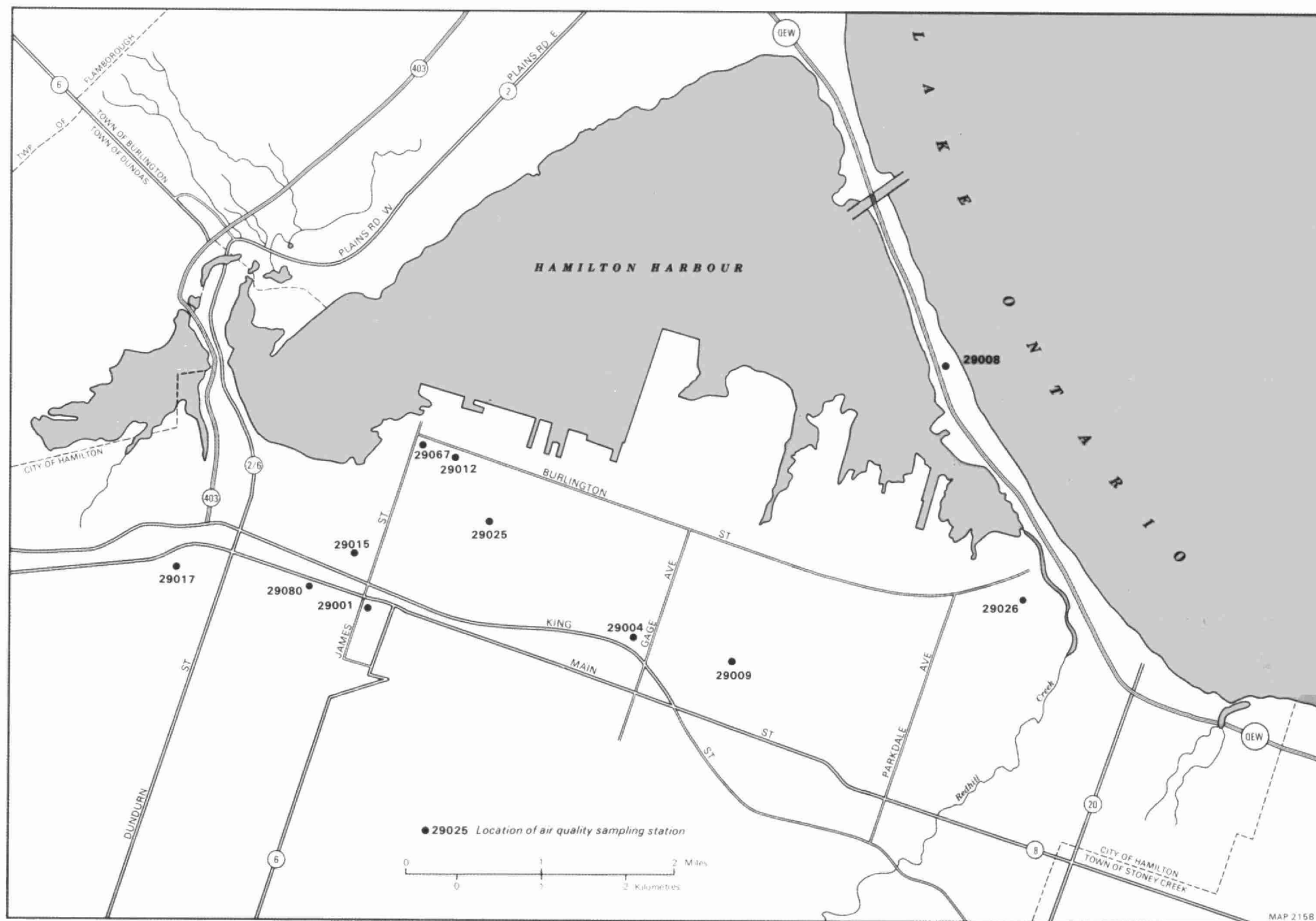


Figure 3. Locations of sampling stations in Hamilton.

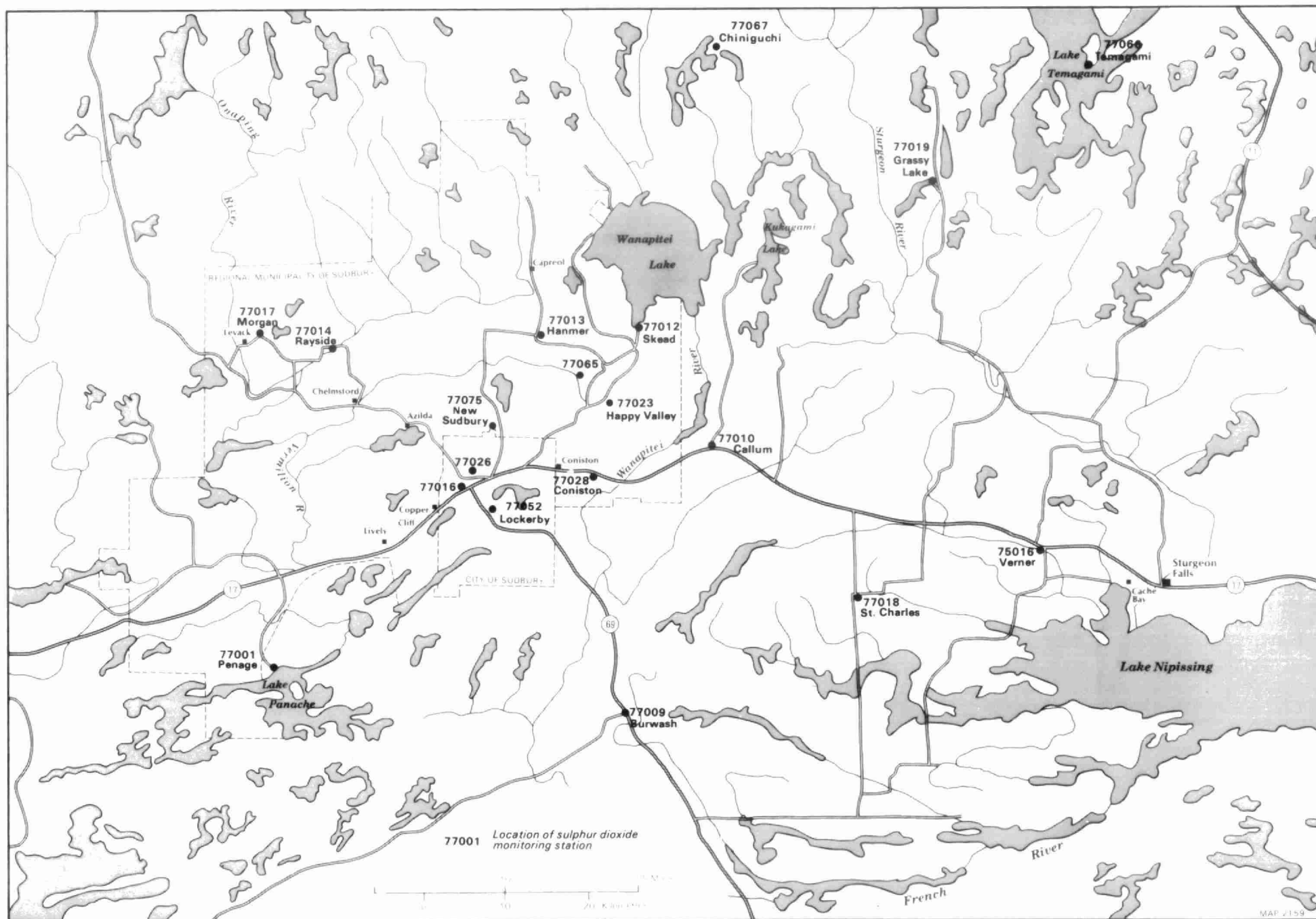


Figure 4. Locations of sulphur dioxide monitoring stations in the Sudbury area.

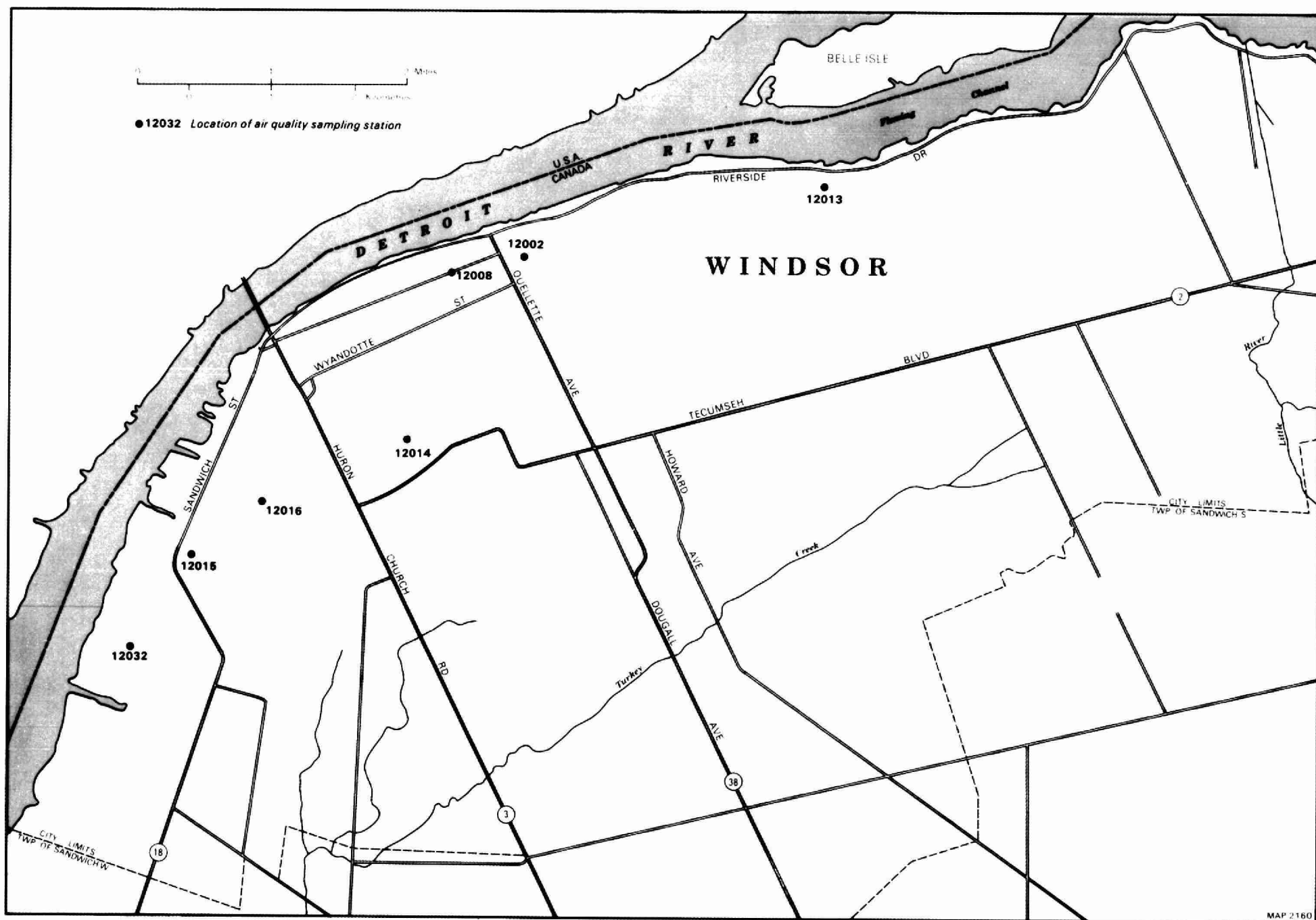


Figure 5. Locations of sampling stations in Windsor.

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